

SYSTEM**MARINE****SUBSYSTEM****1 - SUBTIDAL****2 - INTERTIDAL**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom	AB-AQUATIC BED	RF-REEF	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm		1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic

SYSTEM**E - ESTUARINE****SUBSYSTEM****1 - SUBTIDAL**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	

SUBSYSTEM**2 - INTERTIDAL**

CLASS	AB-AQUATIC BED	RF-REEF	SB - STREAMBED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	SS-SCRUB SHRUB	FO-FORESTED
Subclass	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	1 Cobble- Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble	1 Cobble- Gravel 2 Sand 3 Mud 4 Organic	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

SYSTEM**R - RIVERINE****SUBSYSTEM****1 - TIDAL****2 - LOWER PERENNIAL****3 - UPPER PERENNIAL****4 - INTERMITTENT****5 - UNKNOWN PERENNIAL****CLASS**RB-ROCK
BOTTOMUB-UNCONSOLIDATED
BOTTOM

*SB-STREAMBED

AB-AQUATIC BED

RS-ROCKY
SHOREUS-UNCONSOLIDATED
SHORE

***EM-EMERGENT

OW-OPEN WATER/
Unknown Bottom**Subclass**1 Bedrock
2 Rubble1 Cobble-Gravel
2 Sand
3 Mud
4 Organic1 Bedrock
2 Rubble
3 Cobble-Gravel
4 Sand
5 Mud
6 Organic
7 Vegetated1 Algal
2 Aquatic Moss
3 Rooted Vascular
4 Floating Vascular
5 Unknown Submergent
6 Unknown Surface1 Bedrock
2 Rubble1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated

2 Nonpersistent

* STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS, and comprises the only CLASS in the INTERMITTENT SUBSYSTEM.

**EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS.

SYSTEM**L - LACUSTRINE****SUBSYSTEM****1 - LIMNETIC****CLASS**RB-ROCK
BOTTOMUB-UNCONSOLIDATED
BOTTOM

AB-AQUATIC BED

OW-OPEN WATER/
Unknown Bottom**Subclass**1 Bedrock
2 Rubble1 Cobble-Gravel
2 Sand
3 Mud
4 Organic1 Algal
2 Aquatic Moss
3 Rooted Vascular
4 Floating Vascular
5 Unknown Submergent
6 Unknown Surface**SUBSYSTEM****2 - LITTORAL****CLASS**RB-ROCK
BOTTOMUB-UNCONSOLIDATED
BOTTOMAB-AQUATIC
BEDRS-ROCKY
SHOREUS-UNCONSOLIDATED
SHORE

EM-EMERGENT

OW-OPEN WATER/
Unknown Bottom**Subclass**1 Bedrock
2 Rubble1 Cobble-Gravel
2 Sand
3 Mud
4 Organic1 Algal
2 Aquatic Moss
3 Rooted Vascular
4 Floating Vascular
5 Unknown Submergent
6 Unknown Surface1 Bedrock
2 Rubble1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated

2 Nonpersistent

SUBSYSTEM

P - PALUSTRINE

CLASS	RB--ROCK BOTTOM	UB--UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	US--UNCONSOLIDATED SHORE	ML--MOSS- LICHEN	EM--EMERGENT	SS--SCRUB-SHRUB	FO--FORESTED	OW-OPEN WATER/ Unknown
Bottom									
Subclass	1 Bedrock 2 Rubble 3 Mud 4 Organic	1 Cobble-Gravel 2 Sand	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown 6 Submergent 6 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	Unknown

MODIFIERS

In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME			WATER CHEMISTRY		SOIL	SPECIAL MODIFIERS		
Non-Tidal	Tidal	Coastal	Halinity	Inland	Salinity	pH	Modifier	s for
A Temporally Flooded	H Permanently Flooded	K Artificially Flooded	*S Temporary-Tidal					
B Saturated	J Intermittently Flooded	L Subtidal	*R Seasonal-Tidal					
C Seasonally Flooded	K Artificially Flooded	M Irregularly Exposed	*T Semipermanent - Tidal					
D Seasonally Flooded/ Well Drained	W Intermittently Flooded/Temporary	N Regularly Flooded	V Permanent -Tidal					
E Seasonally Flooded/ Saturated	Y Saturated/Semipermanent/ Seasonal	P Irregularly Flooded	U Unknown					
F Semipermanently Flooded	Z Intermittently Exposed/Permanent							
G Intermittently Exposed	U Unknown							
						*These water regimes are only used in tidally influenced, freshwater systems.		
						all Fresh Water		
						1 Hyperhaline		
						2 Euxhaline		
						3 Mixohaline (Brackish)		
						4 Polyhaline		
						5 Mesohaline		
						6 Oligohaline		
						0 Fresh		
						7 Hypersaline		
						8 Euxaline		
						9 Mixosaline		
						0 Fresh		
						a Acid		
						t Circumneutral		
						i Alkaline		
						g Organic		
						n Mineral		
						b Beaver		
						d Partially Drained/Ditched		
						f Farmed		
						h Diked/Impounded		
						r Artificial Substrate		
						s Spoil		
						x Excavated		